

What is claimed:

1. A method for processing network traffic content, the method comprising:
receiving a content stream having an operation code and an operand; and
5 building a new stream by either adding data to the operation code or
removing the operand from the content stream.

2. The method of claim 1, wherein the building the new stream comprises
adding data to the operation code.

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3. The method of claim 2, wherein the data comprises one or more values
representative of a length of an instruction.

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4. The method of claim 2, wherein the adding data to the operation code
comprises adding a first variable before an instruction data of the content stream
and a second variable after an instruction data of the content stream.

5. The method of claim 1, wherein the building the new stream comprises
removing the operand from the content stream.

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6. The method of claim 5, wherein the content stream comprises one or more additional operation code, and the method further comprising sorting the operation codes after the operand is removed.

5 7. The method of claim 5, wherein the building the new stream further comprises removing a noise operation code from the content stream.

8. The method of claim 7, wherein the content stream comprises one or more additional operation code, and the method further comprising sorting the
10 operation codes of the content stream after the noise operation code is removed.

9. The method of claim 1, further comprising creating a model using at least a portion of the new stream.

15 10. The method of claim 9, wherein the model is selected from the group consisting of a Strict model, a Normal model, a Free model, and a Quiet model.

11. The method of claim 9, wherein the creating comprises performing a cyclic redundancy check on at least a portion of the new stream.

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12. The method of claim 11, wherein the at least a portion of the new stream comprises a first 12 bytes, a first 18 bytes, a first 24 bytes, a first 30 bytes, or a first 36 bytes, of the new stream.

5 13. The method of claim 9, further comprising:
providing a bit table for the model; and
searching the bit table to determine if the model is represented by a bit set in the bit table.

10 14. The method of claim 13, further comprising:
providing a cyclic redundancy check table for the model, the cyclic redundancy check table having a plurality of cyclic redundancy check elements; and
searching the cyclic redundancy check table to determine if the model
15 matches with one of the plurality of cyclic redundancy check elements in the cyclic redundancy check table.

15 15. The method of claim 14, further comprising verifying a detection of a content when the model matches with a cyclic redundancy check element in the
20 cyclic redundancy check table.

16. The method of claim 15, wherein the verifying comprises comparing a parameter obtained during a processing of the content stream with a verifier of a cyclic redundancy check element.

5 17. A system for processing network traffic content, the system comprising:
means for receiving a content stream having an operation code and an operand; and
means for building a new stream by either adding data to the operation code or removing the operand from the content stream.

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18. The system of claim 17, further comprising means for creating a model using at least a portion of the new stream.

19. The system of claim 18, wherein the model is selected from the group
15 consisting of a Strict model, a Normal model, a Free model, and a Quiet model.

20. The system of claim 18, wherein the means for creating performs a cyclic redundancy check on at least a portion of the new stream.

20 21. The system of claim 20, wherein the at least a portion of the new stream comprises a first 12 bytes, a first 18 bytes, a first 24 bytes, a first 30 bytes, or a first 36 bytes, of the new stream.

22. The system of claim 18, further comprising:
means for providing a bit table for the model; and
means for searching the bit table to determine if the model is represented
5 by a bit set in the bit table.

23. The system of claim 22, further comprising:
means for providing a cyclic redundancy check table for the model, the
cyclic redundancy check table having a plurality of cyclic redundancy check
10 elements; and
means for searching the cyclic redundancy check table to determine if the
model matches with one of the plurality of cyclic redundancy check elements in
the cyclic redundancy check table.

15 24. The system of claim 23, further comprising means for verifying a detection
of a content when the model matches with a cyclic redundancy check element in
the cyclic redundancy check table.

25. The system of claim 24, wherein the means for verifying compares a
20 parameter obtained during a processing of the content stream with a verifier of a
cyclic redundancy check element.

26. A computer product having a set of stored instructions, the execution of which causes a process to be performed, the process comprising:

receiving a content stream having an operation code and an operand; and
building a new stream by either adding data to the operation code or
5 removing the operand from the content stream.

27. The computer product of claim 26, wherein the building comprises adding data to the operation code.

10 28. The computer product of claim 26, wherein the building comprises removing the operand from the content stream.

29. A method for processing network traffic content, the method comprising:
receiving a content stream, the content stream having an operation code
15 and an operand;

building a new stream by either adding data to the operation code or
removing the operand from the content stream;

creating a first model using at least a portion of the new stream; and
searching a first cyclic redundancy check table to determine if the first
20 model matches with a cyclic redundancy check element stored in the first cyclic
redundancy check table.

30. The method of claim 30, wherein the building the new stream comprises adding data to the operation code.

31. The method of claim 31, wherein the adding data to the operation code
5 comprises adding a first variable before an instruction data of the content stream and a second variable after an instruction data of the content stream.

32. The method of claim 29, further comprising:
creating a second model using raw data of the content stream; and
10 searching a second cyclic redundancy check table to determine if the second model matches with a cyclic redundancy check element stored in the second cyclic redundancy check table.

33. The method of claim 32, wherein the creating the second model
15 comprises removing the operand from the content stream.

34. The method of claim 32, further comprising:
creating a third model using raw data of the content stream; and
searching a third cyclic redundancy check table to determine if the third
20 model matches with a cyclic redundancy check element stored in the third cyclic redundancy check table.

35. The method of claim 34, wherein the content stream comprises one or more additional operation codes, and wherein the creating the third model comprises:

removing the operand from the content stream; and
5 sorting the operation codes of the content stream after the removing.

36. The method of claim 29, further comprising:

creating a quiet model using raw data of the content stream; and
searching a quiet bit table to determine if the quiet model is represented
10 by a bit set stored in the quiet bit table, wherein the searching the quiet bit table
is performed before the searching the first cyclic redundancy check table.

37. The method of claim 36, further comprising:

creating a strict model using raw data of the content stream; and
15 searching a strict bit table to determine if the strict model is represented by
a bit set stored in the strict bit table.

38. The method of claim 37, further comprising:

creating a normal model using raw data of the content stream; and
20 searching a normal bit table to determine if the normal model is
represented by a bit set stored in the normal bit table.

39. The method of claim 48, further comprising:
creating a free model using raw data of the content stream; and
searching a free bit table to determine if the free model is represented by
a bit set stored in the free bit table.

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40. A system for processing network traffic content, the system comprising:
means for receiving a content stream, the content stream having an
operation code and an operand;

means for creating a new stream by either adding data to the operation
10 code or removing the operand from the content stream;
means for creating a model using at least a portion of the new stream; and
means for searching a cyclic redundancy check table to determine if the
model matches with a cyclic redundancy check element stored in the cyclic
redundancy check table.

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41. A computer product having a set of stored instructions, the execution of
which causes a process to be performed, the process comprising:

receiving a content stream, the content stream having an operation code
and an operand;
20 creating a new stream by either adding data to the operation code or
removing the operand from the content stream;
creating a model using at least a portion of the new stream; and

searching a cyclic redundancy check table to determine if the model matches with a cyclic redundancy check element stored in the cyclic redundancy check table.

- 5 42. A method for processing network traffic content, the method comprising:
receiving a content stream;
creating a first model using raw data of the content stream; and
searching a first bit table to determine if the first model is represented by a
bit set stored in the first bit table.

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43. The method of claim 42, wherein the first model comprises a quiet model.

44. The method of claim 42, further comprising:
creating a second model using raw data of the content stream; and
15 searching a second bit table to determine if the second model is
represented by a bit set stored in the second bit table.

45. The method of claim 44, wherein the second model is selected from the
group consisting of a strict model, a normal model, and a free model.

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46. The method of claim 44, further comprising searching a cyclic redundancy check table to determine if the second model matches with a cyclic redundancy check element stored in the cyclic redundancy check table.

5 47. The method of claim 46, wherein the cyclic redundancy check table is selected from the group consisting of a strict cyclic redundancy check table, a normal cyclic redundancy check table, and a free cyclic redundancy check table.

48. A system for processing network traffic content, the system comprising:
10 means for receiving a content stream;
means for creating a first model using raw data of the content stream; and
means for searching a first bit table to determine if the first model is represented by a bit set stored in the first bit table.

15 49. A computer product having a set of stored instructions, the execution of which causes a process to be performed, the process comprising:
receiving a content stream;
creating a first model using raw data of the content stream; and
searching a first bit table to determine if the first model is represented by a
20 bit set stored in the first bit table.